


88-116706/17 LION CORP 05.09.86-JP-208969-(22.03.88) C11d-01/72 C11d-07/50 C11d-10/12 Emulsifier compsn. for dry-cleaning solvent - comprises polyoxyethylene nonionic activator and e.g. carboxylic acid cpd. for highly stable water emulsion C88-052625	E19 C04 L10Y 05.09.86 *J6 3063-799-A	E(5-B, 5-G9D, 10-A9B7, 10-A9Bt, 10-C4C, 10-C4L, 10-E4K, 10-E4M3) G(4-B8)
A new emulsifier compsn. for dry-cleaning solvents contains (A) 5-70 wt. % of a nonionic activator of formula (I) and (B) one or more cpds. of formulae (II) to (V) with a (B)/(A) ratio of 0.05-0.7.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $R_1-O-\overset{\overset{R_2}{ }}{\text{CH}_2\text{CHO}}_{n_1}-H \quad (I)$ $R_3-COO-\overset{\overset{R_4}{ }}{\text{CH}_2\text{CHO}}_{n_2}-H \quad (II)$ $R_5-COOM_1 \quad (III)$ </div> <div style="text-align: center;"> $\begin{array}{c} R_6 \\ \diagdown \\ X-SO_3M_2 \\ \diagup \\ R_7 \end{array} \quad (IV)$ </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(i)</p> </div> <div style="text-align: center;"> $\begin{array}{c} O \\ \\ -O-C-CH- \\ \\ O-C-CH_2 \\ \\ O \end{array} \quad (iii)$ </div> </div> <div style="margin-top: 10px;"> $R_8O-(CH_2CH_2O)_{n_1}-P \begin{array}{l} \diagup O \\ \diagdown X_1 \\ \diagup Y_1 \end{array} \quad (V)$ </div>	<p>$R_1 = 8-20C$ alkyl or alkenyl gp. or $(8-20C$ alkyl gp.)-substd. phenyl gp.; $n_1 = 2-20$;</p>

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$R_2 = H$ or CH_3 ; $R_3 = 8-20C$ alkyl or alkenyl gp. or $(8-20C$ alkyl gp.)-substd. phenyl gp.; $n_2 = 2-20$ $R_4 = H$ or CH_3 ; $R_5 = 8-20C$ alkyl or alkenyl or $(8-20C$ alkyl)-substd. phenyl; $M_1 = Ca, Al$ or Mg . $X = (i)$ or (ii) . $R_6, R_7 = H$ or $8-22C$ alkyl or alkenyl (they may be same of different but they are not both H) $M_2 = alkali(ne\ earth)$ metal, $R_8 = 8-20C$ alkyl or alkenyl, $n_3 = 0-10$; $X_1, Y_1 = OM_3$ or $-(OCH_2CH_2)_{n_1}-OR_8$ and $M_3 = H$ or alkali(ne earth) metal.	
USE/ADVANTAGE The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flex, etc. (6ppDwgNo0/0).	

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